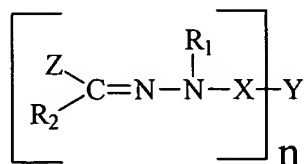


## ORGANOPHOTORECEPTOR WITH CHARGE TRANSPORT MATERIAL WITH PHENOTHIAZINE HYDRAZONE GROUPS

### Abstract of the Disclosure

Improved organophotoreceptor comprises an electrically conductive substrate and  
5 a photoconductive element on the electrically conductive substrate, the photoconductive  
element comprising:

(a) a charge transport material having the formula



where n is an integer between 2 and 6, inclusive;

10  $\text{R}_1$  and  $\text{R}_2$  are, independently, H, an alkyl group, an alkaryl group, or an aryl  
group;

X is a linking group having the formula  $-(\text{CH}_2)_m-$ , branched or linear, where m is  
an integer between 0 and 20, inclusive, and one or more of the methylene groups is  
optionally replaced by O, S, C=O, O=S=O, a heterocyclic group, an aromatic group,  
15 urethane, urea, an ester group, a  $\text{NR}_3$  group, a  $\text{CHR}_4$  group, or a  $\text{CR}_5\text{R}_6$  group where  $\text{R}_3$ ,  
 $\text{R}_4$ ,  $\text{R}_5$ , and  $\text{R}_6$  are, independently, H, hydroxyl group, thiol group, an alkyl group, an  
alkaryl group, a heterocyclic group, or an aryl group;

Y comprises a bond, C, N, O, S, a branched or linear  $-(\text{CH}_2)_p-$  group where p is an  
integer between 0 and 10, an aromatic group, a cycloalkyl group, a heterocyclic group, or  
20 a  $\text{NR}_7$  group where  $\text{R}_7$  is hydrogen atom, an alkyl group, or aryl group, wherein Y has a  
multivalent structure selected to form n bonds with the corresponding X groups; and

Z comprises a heterocyclic group selected from the group consisting of  
phenothiazine group, phenoxazine group, phenoxathiin group, dibenzo(1,4)dioxin group,  
thianthrene group, and phenazine group; and

25 (b) a charge generating compound.

Corresponding electrophotographic apparatuses and imaging methods are  
described.